



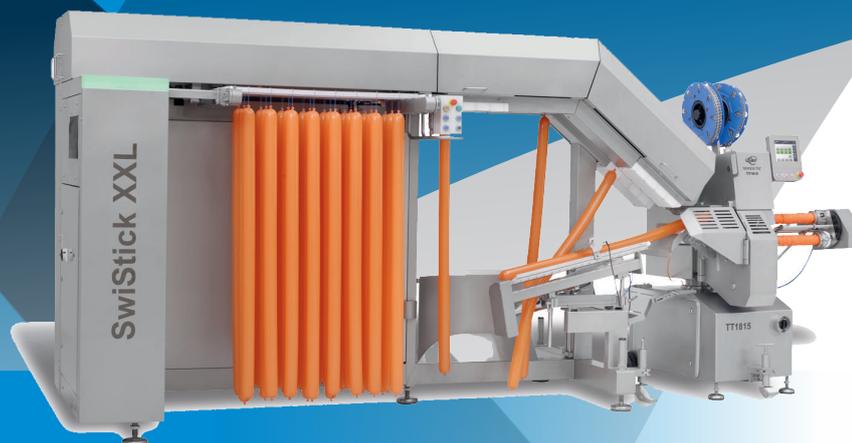
# TIPPER TIE™

## SwiStickXXL

Automated Hanging System



Reduced handling and high throughput for automated sausage production.



# TIPPER TIE SwiStickXXL Automated Suspension System

SwiStickXXL and TT1815.

## Flexibility, Productivity, Efficiency

Production flexibility and state-of-the-art automated suspension technology distinguish the TIPPER TIE SwiStickXXL. It is the proven system for efficiently producing portions or strings of sausages. Joined with TIPPER TIE automated double clippers, the robust SwiStickXXL safely and precisely suspends all sausages across a wide variety of casing types, calibers, and string lengths.

## Technical Highlights

The SwiStickXXL easily handle sausages in plastic, fibrous, and collagen casings, accommodates calibers from 20 millimeters to 120 millimeters with a maximum sausage/string length of 1700 millimeters. Adjustable to be able to accommodate smoking sticks from 800 - 1200 mm and as many as 65 loops per minute on the smoking sticks. SwiStickXXL can be configured individually to a customer's current smoking sticks, eliminating special formats. Up to 30 smoking sticks can be inserted into the motorized magazine. When only a few sticks remain, a visual signal is sent by the monitoring system. If the magazine is emptied, the entire line stops automatically.

For heavy and large sausages, the SwiStickXXL is the sound choice. It handles a significantly long maximum sausage/string length of 1,700 millimeters. Individual sausage or chain weights can vary from 500 grams to 10 kilograms with each smoking stick capable of being loaded with up to 50 kilograms, depending on the sticks quality and workmanship. SwiStickXXL hangs as many as 65 loops per minute, depending on product. A robot or automatic conveyor system can move the heavier filled smoking

sticks from the SwiStickXXL buffer to a smoking trolley.

The SwiStickXXL system directly transfers string loops from the string loop feeder of a TIPPER TIE TT1815 or TT1512 double clipper. The single sausage or string of sausages is placed on a chain of hooks by the conveyor belt and deposited on a smoking stick. Positions of individual string loops are determined through the system control delivering up to 25% utilization improvement for each smoking stick, the smoking trolley, and the cooking or smoking chamber vs. hand placement.

The smoking stick of the replacement system is extremely efficient. When the preset number of loops is reached, the filled smoking stick is ejected from the SwiStickXXL into the buffer in only 600 milliseconds, and a new smoking stick is supplied from the magazine. The operator removes the filled smoking stick from the buffer and loads it on to the smoking trolley. The buffer has a safety stop that is activated as soon as the delivery table is full.

The SwiStickXXL connects seamlessly to a TIPPER TIE double clipper TT1815 or TT1512. To make changing loops or clips easier, the SwiStickXXL does not have to be disconnected. Only the string loop housing has to be opened.

## Control

The SwiStickXXL is driven by maintenance-free servo motors and is equipped with a modern PLC control operated via a multi-lingual graphical touch screen on the double clipper. This innovative operating system is state-of-the-art in terms of convenience, hygiene, and efficiency. All settings, like the number of sausages per



smoking stick and spacing on the sticks, can be stored in the program for quick recall.

### Hygienic Design & Maintenance

Like all TIPPER TIE designed equipment, the SwiStickXXL is very easy to maintain and service. Smooth, stainless surfaces with a three percent gradient are design elements that allow fast, hygienic cleaning. An integrated safety control system monitors production. In the event of machine error, the system stops the line and the SwiStickXXL, clipper and stuffer go into standby position. Imminent maintenance work is communicated to the operator on the touch screen.

### Options & Accessories

For even quicker changeovers, the TIPPER TIE double clipper can be equipped with swivel horn or parallel turret. These options enable the casing to be changed without opening the upper section of the TT1815 or TT1512. With the parallel turret, while one casing string is running in fill position, the free filler tube is swiveled up, and a new casing is fitted and swiveled into the integrated casing brake holder with the casing brake. Changing a casing creates only about two seconds of standstill time for the filling machine, leaving production virtually uninterrupted.

### Single Supplier System

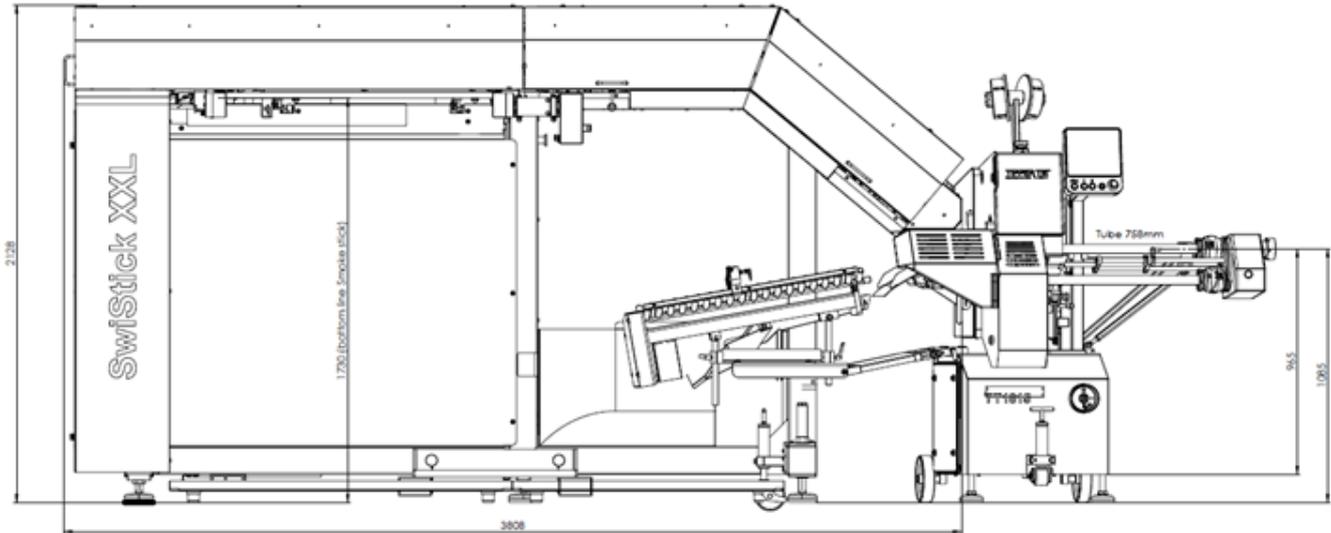
The complete system from one manufacturer – SwiStickXXL, double clipper, clips, loops and labels – ensures fault-free production and increases safety. The alloy, profile, and dimensional accuracy make TIPPER TIE clips an

outstanding choice for secure packages. Products can be labeled individually with various marking types. Colored clips or loops, embossed clips or clipped-in labels are excellent means of product identification.

### Customer Value

- Single operator reduces labor costs
- Meets or exceeds highest safety standards
- Excellent flexibility handling a wide range of casing types, calibers, and string lengths
- Highly productive, hanging up to 65 loops per minute
- Configured individually to customer's smoking sticks length and profile with no need to buy new
- Delivers measurable utilization improvement (up to 25%) for smoking sticks, smoking trolley, and cooking or smoking chamber
- Designed for easy connection to a TIPPER TIE double clipper for ultimate system productivity
- SwiStickXXL is perfect for heavy and large sausages
- Hygienic design for fast, thorough cleaning
- Design features stress reliability and easy maintenance for maximum uptime
- Easily integrates with automatic handling solutions
- Ensures food safety by eliminating product handling

# TIPPER TIE SwiStickXXL Automated Hanging System



Specifications	SwiStickXXL
Capacity:	Up to 65 loops/min.
Caliber range:	Ø 20-120 mm
Sausage length:	Chub: 400 mm - 1700 mm
String length:	String: 600 mm - 1700 mm (min. 200 mm per chub of the string)
Smoking stick size:	800 mm - 1200 mm
Sausage weight:	500 g - 10 kg (clip holding strength may vary)
Protection class:	IP65
Fuse protection:	10 A at 3x 400 V/50 Hz
Power consumption:	2.6 kW
Air pressure/air consumption:	6-7 bar/0.8 Nm <sup>3</sup> /h
Weight:	approx. 1200 kg
Noise level:	76 L <sub>pA</sub> [dB(A)] per EN ISO 11204

**SwiStickXXL is operated via the touch screen of the TT1815 or TT1512.**

## JBT PROTEIN PROCESSING

### SECONDARY

BRINE PREPARATION | HOMOGENIZATION | INJECTION  
INJECTION & RETURN MILLING | MACERATION | MASSAGING | TENDERIZATION  
X-RAY TECHNOLOGY | AUTOMATED TRAY LOADING

### FURTHER

WEIGHING | PORTIONING/TRIMMING | COATING | FRYING & FILTRATION | PROOFING  
COOKING | COOLING | CHILLING | FREEZING | REFRIGERATION | CLIPPING & PACKAGING  
SOLUTIONS | X-RAY TECHNOLOGY | HIGH-PRESSURE PROCESSING (HPP)



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